

Government of India Ministry of Environment, Forest & Climate Change (EI Division)

2014-15

Annual Progress Report







Hosted by

Forests, Environment & Wildlife Management Department Government of Sikkim Gangtok



ENVIS CENTER SIKKIM

On Status of Environment & Related Issues

(STATE GOVERNMENT CENTER)



Government of India Ministry of Environment, Forests & Climate Change (EI Division)



ANNUAL PROGRESS REPORT 2014-15 (1st April 2014 – 31st March 2015)

OF

ENVIS CENTER SIKKIM

On Status of Environment & Related Issues (STATE GOVERNMENT CENTER)



Hosted by Forests, Environment & Wildlife Management Department Government of Sikkim Deorali, Gangtok – 737101

> Website URL: www.sikenvis.nic.in Email ID: sik@envis.nic.in Tel (O): 03592 280381 Fax: 03592-281778, 280381



ENVIS SIKKIM ANNUAL PROGRESS REPORT 2014-15

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Government of India Ministry of Environment, Forest and Climate Change (EI Division)

Annual Progress Report 2014-15 on Activities of ENVIS Centre Sikkim

1.	Name of Host Organization:	Forests, Environment and Wildlife M	Ianagement	
	i une of flose of guillation.	Department, Government of Sikkim, Gangtok		
2	Agging ad Subject Anos	On Status of Environment & its Related Issues		
2.	Assigned Subject Area:		teu Issues	
3.	Date/Month/Year of establishment	MoU dated 23/03/2002		
	of ENVIS Centre:	Established vide letter No: 13(1)/WE	3/2002 – ENVIS	
_		dated: 25/06/2002.		
4.	Name and designation of ENVIS	B. B. Gurung,		
_	Coordinator (2014-15):	Joint Director (Environment & Soil C	Conservation)	
5.	Has the Host Organization	*7		
	constituted an Advisory Committee	Yes		
	for guiding the activities of the			
	Centre?			
	Composition of the Advisory	1. Dr. Thomas Chandy, IFS		
	Committee:	PCCF-cum Pr. Secretary	Chairperson	
	Committee:	r cer-cum r r. Secretary	Champerson	
		2. Shri C.S. Rao, IFS		
		CCF (T/HQ)	Member	
		3. Shri J.B. Subba, IFS		
		Director (KNP/KBR)	Member	
		4. Dr. Gopal Pradhan		
		Pr. Scientist (SPCB)	Member	
		5. Shri. D. T. Bhutia		
		Addl. Director (TT), DST&CC	Member	
		6. Shri B.B. Gurung		
		Joint Director (E&SC)-cum-	MIG	
		Programme Coordinator (ENVIS)	Member Secretary	

		đ	
		A State	
		GOVERNMENT OF SIKKIM	
		SOVERNMENT OF SIKKIM ST, ENVIRONMENT & WILDLIFE MAI	NAGEMENT
		ETARIAT, DEORALI, GANGTOK 7371	
No	1119 /ADM/FEWN	10	Dated: 21/03/2015
NO	ADIVI/ PEVVIV		Dated. 21/03/2013
		OFFICE ORDER	
	Consequent upon the ann	roval of the Competent Authority, an	Advisory Committee
comr		rs is hereby constituted for necessary	
		tre on Status of Environment & Its Rela	
		llife Management Department, Govern	
	Dr. Thomas Chardy 150	DCCE our Dr. Scorotony	Chairporson
	Dr. Thomas Chandy, IFS	PCCF-cum Pr. Secretary CCF (T/HQ)	Chairperson Member
	. Shri C.S. Rao, IFS . Shri J.B. Subba, IFS	Director (KNP/KBR)	Member
	. Dr. Gopal Pradhan	Pr. Scientist (SPCB)	Member
	. Shri. D. T. Bhutia	Additional Director (TT), DST&CC	Member
	. Shri`B.B. Gurung		Member Secretary
6			
6	. Shiri B.B. Gurung	Joint Director (E&SC)	
6			•
	The above Advisory Co	ommittee shall meet at least tw	ice in a year for
overs	The above Advisory Co sight/review of the activities	ommittee shall meet at least tw of the ENVIS Centre including carryin	rice in a year for ng out peer review of
overs its ir	The above Advisory Co sight/review of the activities	ommittee shall meet at least tw	rice in a year for ng out peer review of
overs its ir	The above Advisory Co sight/review of the activities formation/ knowledge pro-	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P	rice in a year for ng out peer review of
overs its ir	The above Advisory Co sight/review of the activities formation/ knowledge pro-	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/	rice in a year for g out peer review of lan of Activities for
overs its ir	The above Advisory Co sight/review of the activities formation/ knowledge pro-	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy)	ice in a year for g out peer review of lan of Activities for IFS
overs its ir	The above Advisory Co sight/review of the activities formation/ knowledge pro-	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr	ice in a year for g out peer review of lan of Activities for IFS retary
overs its ir relev	The above Advisory Co sight/review of the activities oformation/ knowledge pro- ant prospective year.	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr Forest, Environment & Wildlife Mana	ice in a year for g out peer review of lan of Activities for IFS retary
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overs its ir relev Mem	The above Advisory Co sight/review of the activities formation/ knowledge pro- ant prospective year. No No.4702-4711 /AD to: 1) All the officers concerr 2) Principal Secretary to H 3) Assistant Director, Mo	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr Forest, Environment & Wildlife Mana DM/FEWMD ned above HCM EF (El Division), Government of India	rice in a year for g out peer review of lan of Activities for IFS retary gement Department
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overs its ir relev Mem	The above Advisory Co sight/review of the activities formation/ knowledge pro- ant prospective year. No No <u>ATO2-4T11</u> /AD to : 1) All the officers concerr 2) Principal Secretary to H 3) Assistant Director, Mo 4) PS to Hon'ble Minister 5) PS to Chief Secretary	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr Forest, Environment & Wildlife Mana DM/FEWMD ned above HCM EF (El Division), Government of India	rice in a year for g out peer review of lan of Activities for IFS retary gement Department
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overs its ir relev Mem	The above Advisory Co sight/review of the activities formation/ knowledge pro- ant prospective year. No No <u>ATO2-4TTI</u> /AD to: 1) All the officers concerr 2) Principal Secretary to H 3) Assistant Director, Mo 4) PS to Hon'ble Minister 5) PS to Chief Secretary 6) File	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr Forest, Environment & Wildlife Mana DM/FEWMD ned above HCM EF (EI Division), Government of India , FEWMD	ice in a year for g out peer review of lan of Activities for IFS retary gement Department Dated: 21/03/2015
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overs its ir relev Mem	The above Advisory Co sight/review of the activities formation/ knowledge pro- ant prospective year. No No <u>ATO2-4TTI</u> /AD to: 1) All the officers concerr 2) Principal Secretary to H 3) Assistant Director, Mo 4) PS to Hon'ble Minister 5) PS to Chief Secretary 6) File	ommittee shall meet at least tw of the ENVIS Centre including carryin ducts, and also formulate Annual P Sd/ (Dr. Thomas Chandy) PCCF-cum-Principal Secr Forest, Environment & Wildlife Mana DM/FEWMD ned above HCM EF (EI Division), Government of India , FEWMD	ice in a year for g out peer review of lan of Activities for IFS retary gement Department Dated: 21/03/2015

Office Order Constituting Advisory Committee for ENVIS Centre Sikkim

6.	6. Current ENVIS Staff Structure:							
	Name	Position held	-	Joining	Joining		2014-15	
			and Experience	Date in	Date in	Leaving	Emolum	ents drawn
				ENVIS Centre	current position	Date (if	(Rs.)	
					<u>^</u>	applicable)	monung	Annual
	Mr. Rajen	Sr.	B. Tech (Computer	17/04/2006	20/03/2009	-	30,630/-	3,67,560/-
	Pradhan	Programme Officer	Sc.) with nine years experience in environment information technology					
	Mr. Laxuman	Information	PG (Diploma) in	18/08/2006	20/03/2009	-	24,990/-	2,99,880/-
	Darnal	Officer	Computer Sc. with					
		cum Programme Assistant	nine years experience in ENVIS					
	Ms. Renu	IT	BA Graduate with	16/09/2011	1/04/2013	-	14,400/-	1,72,800/-
	Gurung	Assistant cum Data Entry Operator	Diploma in computer applications					
	Ms. Tulsha	Data Entry	Matriculation with	02/12/2013	02/12/2013	-	8,500/-	1,02,000/-
	Gurung	Operator (Additional manpower attached to ENVIS by the host department)	Diploma in computer application					Supported by the host department

7.	Mandate of the Host Organization	Mandate of the ENVIS Centre
	The primary mandate of the host	To collect, collate, store in retrieval system and
	department is protection &	disseminate data and information on "Status of
	conservation of Forests, Environment	Environment & Related Issues"
	& Wildlife in the State.	

8. Databases:

8.1. Catalogue of Non-numeric Databases compiled by the ENVIS Centre till date:

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Periodicity/ Data Points Compiled (including date/month/year of	Source(s) of data	Availability (Whether uploaded on ENVIS
Agriculture	Opportunities and Challenges, Agrobiodiversity of Sikkim Himalaya	Descriptive	last data point) 2013	Agriculture Deptt, journals, Govt. publications	Website) Yes
Pollution	Air, water, noise, solid waste	Descriptive	Monthly up to 2014	SPCB	Yes
Biodiversity	Comprehensive database on floral and faunal diversity of Sikkim	Descriptive, geospatial	Book published in 2012, updated up to 2014	Govt publication	Yes
Orchid diversity of Sikkim	Comprehensive details of 557 orchid species	Descriptive	2014	Forest deptt	Yes
Climate Change in Sikkim	Comprehensive study report on in-depth research by several scholars	Descriptive	Book published in 2012, data updated up to 2015	Govt publication	Yes
Demography	Analysis on Population study of Sikkim	Descriptive, graphical	2011 Census	Census of India	Yes
Disaster	History of Earthquakes, landslides, forest fires	Descriptive	2014	Disaster Management Department, Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study	Descriptive	2014	Forest deptt	Yes
Energy	Electricity and energy consumption	Descriptive	Annual up to 2013	Power and Energy Deptt	Yes
Environment	EIA, EMP, EC, public hearingt, carrying capacity study report	Descriptive	2015	Forest deptt	Yes
Forest Resources	Forest types, SFRs, JFMCs, EDCs	Descriptive	2014	Forest deptt	Yes
Land and Water Resources	Wetlands, Wasteland, rivers, landslide and soil treatment	Descriptive	2013	SAC, ISRO Forest deptt	Yes
Wildlife	PAs, KNP, eco- sensitive and conservation zones	Descriptive	2014	Forest deptt	Yes
Soils and Minerals	Status of mineral development in Sikkim	Descriptive	2013	Mines Minerals and Geology Deptt	Yes
Sericulture	Mulberry, muga and eri culture practices in Sikkim	Descriptive	2014	Forest deptt	Yes

Name of Database	Description (in brief)	Time Period (<i>Starting</i> <i>year- Ending year</i>) and Periodicity (<i>annual/ monthly/</i> <i>other</i>)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Agriculture	Area, Production and Productivity of Rice, Wheat, Maize, Finger Millet, Barley, Buckwheat, Pulses, Oilseeds	Annual (2003-04 to 2013-14)	Food Security & Agriculture Development Deptt	Yes
Air Quality of Gangtok	SPM, SOx, NOx	Annual (2014)	SPCB	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly (2011, 2012, 2013, 2014)	SPCB	No
Biodiversity	Statistics on species availability	Annual up to 2014	Forest deppt	Yes
Climate	Temperature, rainfall etc	Monthly, Annual 1996-2014	IMD	Yes
Demography	Demography statistics	2001, 2011	Census of India	Yes
Earthquakes	History of Earthquakes	1839 -2013	Disaster Management Deptt	Yes
Forest Fire Cases	Forest fire cases in Sikkim	2004 - 2014	Forest deptt	Yes
Electricity Consumption	Category wise consumption	Annual, 2008-09 to2011-12	Power & energy deptt	Yes
Energy Consumption	Power from National grid, hydel power generation	Annual 2002-03 to 2011-12	Power & energy deptt	Yes
Forest Statistics	Forest cover statistics of Sikkim	1987 to 2014	FSI	Yes
Wetlands of Sikkim	Altitude wise no of lakes and area	2003 and 2011	SAC, ISRO, Ahmedabad	Yes
Mineral Reserves in Sikkim	Status of mineral development in Sikkim	Annual, 2013	Mines, Mineral and Geology Deptt	Yes
Protected Areas of Sikkim	Profile of Wildlife sanctuaries and National Park	2014	Forest deptt	Yes
Disaster	History of Earthquakes, landslides, forest fires	2014	Disaster MgmtDeptt. Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study	2014	Forest deptt	Yes
Energy	Electricity and energy consumption	Annual up to 2012	Power and Energy Deptt	Yes

8.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of	Description	Data type	Status of Updation/	Source(s) of data	Online
Database	(in brief)	(descriptive/	Periodicity/ Data		Availability
		graphical/	Points Compiled		(Whether
		geospatial/	(including		uploaded on
		etc.)	date/month/year of		ENVIS
			last data point)		Website)
Agriculture	Opportunities and	Descriptive	2013	Govt publication	Yes
	Challenges of the				
	Globally Important				
	Traditional Agriculture				
	Heritage Systems of				
	the Sikkim Himalaya				
Biodiversity	Pteridophytic wealth of Sikkim	Descriptive	2014	Govt publication	Yes
	List of 11 Oak	Descriptive	2014 updated	Forest deptt	Yes
	varieties in Sikkim				
	The Orchid Diversity	Descriptive	2014	Govt publication	Yes
	in Sikkim and Effect of				
	Change of				
	Environment on the				
	Distribution of Native				
	Orchids in Sikkim				
	Himalaya	D i i	2012	UADO D	X 7
	Alien plants found in Sikkim	Descriptive	2013	HARC, Forest Deptt	Yes
Disaster	Forest Fire Cases in	Descriptive	2014	Forest Deptt	Yes
	Sikkim				
KNP	Management plan	Descriptive,	Updated in 2014	Forest Deptt	Yes
	(2008-2018) of	geospatial,			
	Khangchendzonga	graphical			
	National Park				
Wildlife	Eco-Sensitive Zones in	Descriptive,	2014	Govt publication	Yes
~	Sikkim	graphical	2014		**
Sericulture	Beneficiaries	Descriptive	2014		Yes

8.3. New Databases developed during the previous Financial Year (2014-15)

8.3.1. Non-numeric Databases:

8.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (<i>Starting</i> <i>year- Ending year</i>) and Periodicity (<i>annual/ monthly/ other</i>)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Agriculture	Area, Production and Productivity of Rice, Wheat, Maize, Finger Millet, Barley, Buckwheat, Pulses, Oilseeds	2013-14	Food Security & Agriculture Development Deptt	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly up to 2013	SPCB	No
Climate data	Daily weather report and four days forecast of Gangtok town	Daily basis	IMD	Yes
Rainfall	District wise rainfall data	2009-2013	IMD	Yes
Pollution	Industrial Air Pollution	2013	SPCB	Yes

8.4. Status of data entry in ISBEID: (For State/UT ENVIS Centres) – As in Annex - I

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the previous Financial Year (2014-15):

Cover snapshot Quarter/ Volume/ Issue/ Theme Number of copies					
Cover snapshot	Quarter/Volume/Issue/Imeme	printed and circulated			
	Main Articles	P			
<page-header><page-header><image/><image/><image/><image/><image/><image/></page-header></page-header>	1 st Qtr (Apr-Jun) Vol. 7, Issue 1 Theme - <i>Environment Event Special</i> Paryavaran Mahotsav 2014, World Environment Day 2014, Chief Minister's Green School Rolling Trophy and Green Schools State Award 2014, The Green Wave 2014	500 nos			
<page-header><page-header><page-header><page-header><image/></page-header></page-header></page-header></page-header>	2 nd Qtr (Jul-Sep) Vol. 7, Issue 2 Theme- <i>Biodiversity and Wildlife Special</i> Eco-Sensitive Zones in Sikkim, Sustainable Environment Initiative, Launch of Sikkim Green Roads Mission	500 nos			
<text><text><image/><image/><image/><image/></text></text>	3 rd Qtr (Oct- Dec) Vol. 7, Issue 3 Theme – <i>Cleanliness and Hygiene Special</i> Swachh Bharat Swasth Sikkim, Solid Waste profile of Gangtok, Legal framework of solid waste management, house-hold waste management, Integrated healthcare waste management plan	500 nos			
<complex-block></complex-block>	 4th Qtr (Jan-Mar) Vol 7, Issue 4 Special issue titled <i>PANDA</i> 72 pages bi-lingual special edition highlights scientific research articles, write-ups, observations and notes on flora, fauna, ecotourism, wildlife, climate change and other important environment issues over the year 2014-15 of Sikkim State. The newsletter is a compilation of articles received from foresters, environmentalists, scientists, scholars, students and volunteers. <i>Cover snapshot of 2013-14 Issue</i> 	1500 nos (under preparation, to be released on World Environment Dat 5 th June 2015) <i>Financial support</i> <i>from the host</i> <i>organization</i>			

9.2. Other publications/ information products brought out during the previous Financial Year (2014-15):

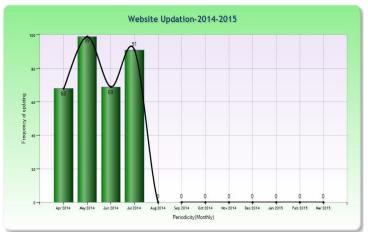
Cover snapshot	Publication/ Product	Number of copies
		printed and
	Theme(s)/ Subject Area(s)	circulated
<section-header><image/><image/><image/></section-header>	ECO CLUB HANDBOOK 2014-15 The book has been prepared by ENVIS and officially released by the Hon'ble Minister Forest. This publication is for about 800 Eco-club schools in Sikkim as a guideline for implementing the National Green Corps programme of the ministry. The book is also the guideline for eco-club schools for participating in the State-level Green Schools Award. This publication is an effort to assist the schools to raise environment awareness and build efficient environment management system at schools.	1000 nos Printing costs supported by host organization
<text></text>	Activity Booklet on ' Paryavaran Mahotsav 2014' Sikkim celebrated the 2 nd successive Paryavaran Mahotsav 2014. This booklet highlights activities carried out throughout the State though mass public participation. The activities such as plantation drives, cleanliness drives, signature campaigns, Greenathon events and various other activities are highlighted in this publication <i>Cover of 2013 edition</i>	1000 nos (Under compilation) Printing costs supported by host organization
Report on SWACHH BHARAT ABHIYAN 2014	Activity Booklet on 'Swachh Bharat Swasth Sikkim'	1000 nos (Under print)
SWACHH BARAT SWASTH SIKKIM Window Wi	This pictorial publication highlights the activities carried out throughout the State of Sikkim with newspaper clips towards the national mission of achieving Swachh Bharat. Sikkim is the first State in the country to achieve 100% sanitation and this publication is an effort to give impetus and momentum to the State's efforts on being a clean and green State.	Printing costs supported by host organization

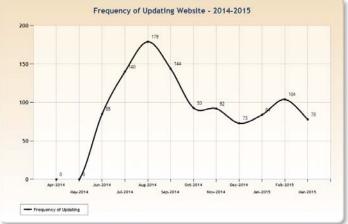
9.3 Information Products published/ released so far:

Publication / Product	Theme(s)/ Subject Area(s)	Year of Publication
State of Environment Report	On Status of Environment and its Related Issues	2007
Environment Consciousness in Sikkim	Study report to assess the environment consciousness of citizens of Sikkim	2013
Sacred Grooves of Sikkim	Sacred Grooves	2011
Environmental Initiatives of Sikkim	Environmental Initiatives of the Hon'ble Chief Minister Shri Pawan Chamling	2012
Biodiversity of Sikkim	Exploring and Conserving a Global Hotspot	2011
Climate Change in Sikkim	Patterns, Impacts and Initiatives	2012
Biodiversity Conservation	A concept note	2013
Paryavaran Mahotsav 2013	Environment actions	2013
Forest for Sustainable Livelihood	A concept note	2012
Impact of Landslide and Erosion Control Treatment	Impact of Landslide and Erosion Control Treatment for West and South Districts of Sikkim State	2009 and 2010
Biodiversity - All Creatures Great and Small	Biodiversity - All Creatures Great and Small	2012
An Ecological Study of Pastoralism	An Ecological Study of Pastoralism in the Khangchendzonga National Park	2007
Study of Ecological, Socio- Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	Study of Ecological, Socio-Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	2012
National Green Corps – Sikkim	School Eco-Club Success Stories from Sikkim	2012
Forest Centenary Pamphlet	Centenary celebrations of Sikkim forest service	2009
Sidkeong Tulku Bird Park	Pamphlet on Sidkeong Tulku Bird Park	2012
PANDA Newsletter	Annual Newsletter – Special edition	2009 to 2014
Quarterly Newsletters	Environment, wildlife, biodiversity, forestry (6 Issues)	2013, 2014
Scientific Journals Published Online (19 nos)	Environment, wildlife, biodiversity, forestry	Since 2007
Carrying Capacity Study of Teesta Basin	Online publication in ENVIS SIKKIM Website	2006
Nomination dossier of Khangchendzonga National Park	Nomination dossier of Khangchendzonga National Park for inscription in the World Heritage site (Online publication)	2014
Management Plan of Khangchendzonga National Park	Management Plan of Khangchendzonga National Park (2008-2018) (Online publication)	2014

- **10. ENVIS Website**(*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible):*
 - 10.1. URL: <u>www.sikenvis.nic.in</u>
 - **10.2.** Status of restructuring of Website: Restructured and made live on 26/11/2012
 - **10.3.** Frequency of updating Website 2014-15: May kindly note that this website server was migration by NIC on 17-July-2014 during the process in which the statistical performance report was reset for FY 2014-15. So the figures and graphs represented below are before and after the server migration for the FY 2014-15.

The monthly average frequency of updation for 2014-15 is **114** updates **per month**. Total **1366 updates** were made during 2014-15.





(Before Migration: 1-04-2014 to 17-07-2014)

(After Migration: 17-07-2014 to 31-03-2015)

Months	Publications	Subject Area	Glossary	Bibliography	Major Activity	Kids Centre	Upcoming Events	Latest News	Photo Gallery	Frequency of Updating
Apr-2014	2	11	32	0	1	0	12	10	0	68
May-2014	0	29	44	9	0	5	10	2	0	99
Jun-2014	5	31	44	0	9	0	38	27	0	154
Jul-2014	61	29	44	0	0	1	34	15	40	224
Aug-2014	0	21	13	0	3	3	97	37	0	179
Sep-2014	19	7	10	21	42	0	10	12	18	144
Oct-2014	13	10	16	31	1	1	4	3	14	93
Nov-2014	14	49	0	10	2	0	7	7	0	92
Dec-2014	2	9	0	20	1	0	14	5	18	73
Jan-2015	5	26	0	0	1	4	8	10	30	84
Feb-2015	6	16	0	52	4	0	9	7	10	104
Mar-2015	4	16	0	14	6	6	16	7	0	26
Total	131	254	203	157	70	20	259	142	130	1366

Cumulative data table showing frequency of updates for 2014-15

- **10.4.** Subject-specific database updation (numeric/ others): 254 updates were made during 2014-15 alone in the subject-specific database
- **10.5. Publication uploaded/ updated on Website:** 131 updates(*including journals, pamphlets, newsletters and book publication by ENVIS and from various sources*)

11. User Engagement and Interaction 2014-15 (ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible):

- 11.1 Total number of visits on Website (2014-15): 1,78,575 nos
- **11.2** Number of unique visits on Website (2014-15): 17,527 persons



(Before Migration: 1-04-2014 to 17-07-2014)

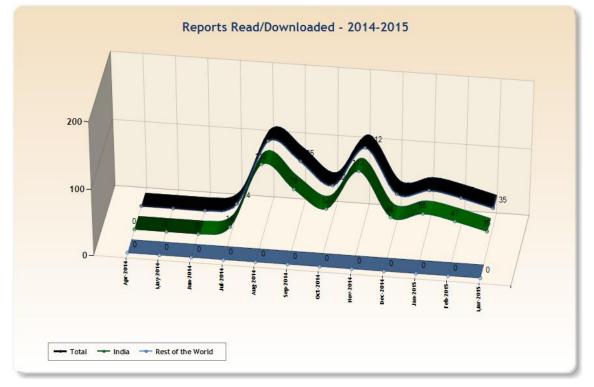


(After Migration: 17-07-2014 to 31-03-2015)

11.3 Number of reports downloaded/ read by stakeholders:

Total 690 downloads is observed during 2014-15 in which about 70% of the downloadable items have been accessed from the Publications module and about 28% of the items have been downloaded from the subject area module.

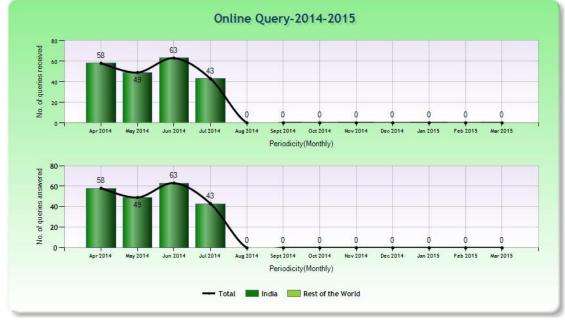
	Latest News		Ma	Major Activity		Kids Centre		Publications		Subject Area		rea	Report Read/Downloaded					
Months	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world		India	Rest of the world	Total	India	Rest of the world		India	Rest of the world	Total
Apr-2014	6	0	6	0	0	0	0	0	0	10	3	13	3	0	3	19	3	22
May-2014	6	1	7	0	0	0	0	0	0	13	0	13	40	0	40	59	1	60
Jun-2014	10	0	10	3	0	3	0	0	0	22	6	22	9	0	9	44	6	50
Jul-2014	3	0	0	0	0	0	0	0	0	16	0	16	26	0	26	54	0	54
Aug-2014	0	0	0	2	0	2	0	0	0	81	0	81	25	0	25	112	0	112
Sep-2014	3	0	3	0	0	0	1	0	1	64	0	71	7	0	7	78	0	85
Oct-2014	0	0	0	0	0	0	0	0	0	45	0	45	7	0	7	52	0	52
Nov-2014	1	0	1	0	0	0	0	0	0	89	0	89	21	0	21	112	0	112
Dec-2014	0	0	0	10	0	0	0	0	0	14	0	14	21	0	21	46	0	46
Jan-2015	1	0	1	0	0	0	0	0	0	39	0	39	14	0	14	55	0	55
Feb-2015	1	0	1	0	0	0	0	0	0	22	0	22	24	0	24	47	0	47
Mar-2015	1	0	1	1	0	1	0	0	0	10	0	10	23	0	23	35	0	35



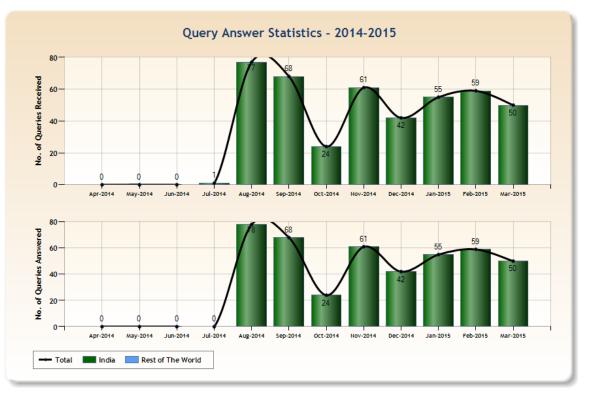
(After Migration: 17-07-2014 to 31-03-2015)

Mode of Query Receipt	Number of	Number of Queries	Reasons for shortfalls, if any,
	Queries Received	Responded	and action taken to rectify
Online (CMS based website)	607	607	-
Email (official NIC server)	213	213	-
Postal (incl. hand post)	122	122	-
Physical	258	258	-

11.4 Query-Answer Statistics 2014-15:



(Before Migration: 1-04-2014 to 17-07-2014)



(After Migration: 17-07-2014 to 31-03-2015)

Achievements	Shortfalls, if any, and reasons therefore
l Work Plan for 2014-15	
Proposal approved by the Ministry and accorded sanction of Rs. 30.97 lakhs as non-recurring grant. ENVIS will prepare the SoE Report for Sikkim in collaboration with an expert institution at Development Alternatives, New Delhi. MoU prepared.	Sanction accorded only on December 2014.
The biodiversity module of the subject area of the website has been populated with the comprehensive data and information collected from several government publications, scientific journals and reports from authentic sources.	-
1807number of updates have been made in the ISBEID module during 2014-15 alone. Quarterly newsletters published and distributed country wide	
Thematic information have been prepared in collaboration with the Remote Sensing cell of the host department and made available at the centre for use in SoE	Publication withheld due to budget constraint. The maps will be incorporated in the SoE Report accordingly.
F	-
ENVIS successfully supported and coordinated the NEAC and NGC programmes in the State by facilitating 126 NGOs and 766 eco-club schools with needed data and information in the form of resource materials.	
ENVIS also supported the 'ParyavaranMahotsav', 'Swachh Bharat Swasth Sikkim' and several other environment awareness programmes during 2014-15.	
	I Work Plan for 2014-15 Proposal approved by the Ministry and accorded sanction of Rs. 30.97 lakhs as non-recurring grant. ENVIS will prepare the SoE Report for Sikkim in collaboration with an expert institution at Development Alternatives, New Delhi. MoU prepared. The biodiversity module of the subject area of the website has been populated with the comprehensive data and information collected from several government publications, scientific journals and reports from authentic sources. 1807number of updates have been made in the ISBEID module during 2014-15 alone. Quarterly newsletters published and distributed country wide Thematic information have been prepared in collaboration with the Remote Sensing cell of the host department and made available at the centre for use in SoE Report. ENVIS successfully supported and coordinated the NEAC and NGC programmes in the State by facilitating 126 NGOs and 766 eco-club schools with needed data and information in the form of resource materials. ENVIS also supported the 'ParyavaranMahotsav', 'Swachh Bharat Swasth Sikkim' and several other environment awareness programmes

12. Implementation of Annual Plan of Activities of the previous Financial Year (2014-15):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore					
(Post-workshop follow-up activities) ENVIS National Workshop - Gangtok, March 2014 Suggestions for improvement by Processing Division, MoEF &CC A. Regular Activities: Web-based Environmental Information							
Collection and Compilation							
1. Development and regular updation of <i>databases</i> (descriptive, numeric, pictorial, geospatial, etc.) on the assigned subject area and regular uploading of the same in the <i>Subject Area</i> section of the ENVIS Website, after due verification/ authentication, with suitable referencing of data sources.	246 number of updates done in the subject area module of the website during 2014-15. The information content of the subject area are quoted with authentic sources.	-					
2. Compilation of <i>Abstracts,</i> <i>Bibliography, News articles,</i> <i>Events, etc.</i> on the subject area and uploading the same in the relevant section of ENVIS Website.	143 bibliography, 203 glossary items, about 50 journals and abstracts uploaded in the website.	-					
3. Identification of data gaps and formulation with implementation of action plan to fill them.	Data gaps on authenticity of RET species. Action initiated for support from the experts.	-					
Maintenance of ENVIS Website							
4. Maintaining the ENVIS Website up-to-date and user- engaging, and as an inventory of authentic and reliable information in the subject area	Centre's website has been kept up to date with frequency of updates averaging to 112 updates per month.	-					
5. Query-Response/ Referral service to stakeholders.	About 1200 online, postal, email and in person queries have been handled by the centre during 2014-15.	-					
6. Developing and upgrading a Kids' Corner.	Kids corner has been made interactive by uploading quiz section, video gallery and monthly environmental activity highlights and so on	-					
 Maintaining a disaggregated record of visitors, including unique visitors, to the Website. 	Website is designed to automatically record visitor's log and is reflected in the performance chart	-					
	paration of State of Environment (SoE) Ro	eports					
8. Development of time series ISBEID databases on 17 parameters (except the ones that are irrelevant to the State Centre) and complement the numeric/ statistical databases with analytical reports and descriptive databases on the website of the Centre.	Time series data are regularly fed in the ISBEID system. Total 1807 number of updates were made during 2014-15 alone. Till date more than 5000 updates have been made in the ISBEID module since inception						

Activity/ Target	Achievements	Shortfalls, if any, and
		reasons therefore
9. Completing updating	Exhaustive exercise undergone by the	
ISBEID, notably by resolving	centre to extract data compatible to	
the problem of lack of	ISBEID format from the reports	
conformity between format of data available with State	collected from the secondary sources. All the modules relevant to Sikkim has	
departments and ISBEID	data now.	
porforma.	uata now.	
10. Devising a mechanism for	Line departments have been sensitized	
sourcing for ISBEID data on	about the ISBEID application and the	
a continuous basis from State	host department has issued letters for	
Departments concerned and	coordination.	
relevant survey and research		
institutes country-wide.		
11. Referencing and indexing of	Sources of data in ISBEID highlighted.	-
sources data in ISBEID.		
12. Publishing State of	Preparation of SoE report for Sikkim	-
Environment (SoE) Reports	has been initiated through the extended	
for the concerned State/UT	support from the Ministry. Work is	
with a periodicity of two	expected to complete by the end of	
over a five-year period.	2015.	
13. Publishing State of	-	-
Environment (SoE) Reports for metro cities and hotspots.		
Publications and Value-Addition		
14. Publishing 4 <i>Newsletters</i> and	Quarterly newsletter published and	
uploading the same in the	circulated country wide.	
relevant section of ENVIS	, , , , , , , , , , , , , , , , , , ,	
Website.		
15. Processing/ analyzing data	Data collected and analysis report is to	
collected and bringing out	be incorporated in the upcoming SoE	
value-added information	report.	
Products		
16. Collecting books, reports and	About 200 e-version of the publications	
journals on the subject area;	relating to status of environment	
Uploading e-versions of	collected from various government	
books, reports, etc. on the ENVIS Website. Uploading	sources and published online. ENVIS Sikkim is proudly the official online	
Abstracts of books, reports,	hosting portal for all government	
journals and articles of those	publications related to Environment	
whose e-versions are not	in Sikkim.	
available.		
Reaching-out/Networking Activi	ties	
17. Liaison and coordination	Duplicity of information in the website	
with other relevant ENVIS	is carefully being handled. Centre is	
Centres, both State Centres	referring to data and information	
and Thematic Centres, for	available with other centres and	
providing data/ information	hyperlinks have been placed	
links in the relevant part of	accordingly.	
the ENVIS Website (to avoid duplication and conflicts in	This centre coordinated with CPREEC	
duplication and conflicts in uploaded information).	ENVIS for compilation of Sacred Grooves of India.	
18. Build linkages with other	Hyperlinks to other information sources	
information sources in the	have been placed in relevant web	
country and abroad.	contents.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Providing hyperlinks to the information sources in the relevant part of the ENVIS Website.		
19. Maintaining a list of Experts in the subject area and uploading the same, along with updated C.V., in the relevant section of ENVIS Website.	List of experts updated in the website	CVs of experts being obtained from the experts.
20. Coordination with the Ministry for timely dissemination of relevant and adequate information to stakeholders.	Centre is in frequent communication with the ENVIS Secretariat and other divisions in the ministry for upkeep of information and dissemination.	
21. Formulate strategic plans to generate sources of funds from corporate sector and/ or through subscriptions of Newsletters/ other publications	Being reviewed by the higher authority of the host department	
B. SPECIAL ACTIVITIES	I	
22. Focus on database development (numeric and descriptive), with due authentication in consultation with Line Departments/ research institutes, etc.	Centre is already in sync with 41 line departments for collection of data and information.	
23. Network and undertake outreach activities with Universities/ Research bodies/ researchers in the State, similar to those of Odisha ENVIS, so that the ENVIS collections/ repositories can be enriched, including with their contact details/ CVs, etc.	Centre is working in several research based activities with expert institutions such as Development Alternatives New Delhi, IFRM-CDF Chennai	
24. Circulate Newsletters and knowledge products to as many stakeholders as possible in the State, especially policy makers/ planners.	Around 1500 copies of quarterly newsletters and other publications have been circulated to ENVIS partners, Sikkim schools, line departments, stakeholders, etc.	
25. Link its Website to other Government Websites; develop the vernacular Website; and undertake other awareness enhancing activities within the State.	Linkages developed with line department websites and other government websites as mandatory activity of the centre.	
26. Maintain a Register for keeping track of queries received and transferred/ answered.	A separate log register is kept at the centre to record visitors, queries and feedback.	
27. Build institutional repositories	Centre has a library that houses more	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore			
of various types of media related to environmental issues.	than 2000 reports and publications including DVD and media collection on environment issues. Recently centre has collected about 20 international award winning documentary films from CMS VATAVARAN, New Delhi.Centre has published several pamphlets, brochures on events and places for 				
28. Bring out a Brochure on environmental issues to spread awareness about World Environment Day, focusing on forestry/ mining/ Climate Change/ disasters/ etc.					
13. New initiatives taken during the previous Financial Year (2014-15):	 Started up with the preparation of SoE F the State. First SoER was published by J As a Guru Centre, this centre has provie ENVIS partners at Jharkand, DMI Bhop Mizoram ENVIS for dynamic weather r gallery and other CMS based website re ENVIS Centre assisted CPREEC ENVIS National publication on Sacred Grooves ENVIS Centre assisted Environment De formulating ecotourism policy for the St ENVIS Centre appointed as the nodal ag scholars and authors for bringing out Sta on Forest Wildlife in Sikkim and Enviro Sikkim. ENVIS Centre made nodal in-charge for environment for the host department. ISBEID data entry undertaken in missio entry for all17 modules. Organized the first ever Environment & Forum in Sikkim in collaboration with G Sustainability environment initiative car eco-clubs with provision of information ENVIS played the role of Regional Rest department for various awareness, exten programmes in collaboration with CEE CSE New Delhi and CDF Chennai. ENVIS Centre conducted Green Teache eco-clubs in two batches and published booklets. ENVIS served the host department as a events such as World Environment Day. State Green Mission, Ten Minutes to Ea Sikkim and other environment awarenes 	ENVIS during 2007. ided IT support to other bal, BSI Kolkata, BHNS and eporting, hosting video lated issues. S at Chennai for bringing out c. epartment, Manipur in tate. gency in assisting research ate Government publications onment Management in r web updations related to on mode and completed data Wildlife Film Festival and CMS VATAVARAN. mpaign introduced in school booklet by the centre. ource Agency of the asion and training Guwahati, CMS New Delhi, at 100 frontline/ field staffs e of online information er's Training for 200 school and distributed information media house for various , Paryavaran Mahotasav, arth, Swachh Bahart Swasth			

14.	Date of most recent	Date: 12/11/2013 by Ms. Vandana Aggarwal, Economic Adviser, MoEF, GoI
	physical verification by	
	the Ministry:	Date: 27/03/2014 by Mr. Kumar Rajnish and Mr. Ravi Goswami, ENVIS
		Secretariat, MoEF(during pre- National Workshop at Gangtok, Sikkim)

15. Status of existing hardware:

	Hardware item	ware item Specification		Date of
			Date	procurement
Procured from	Desktop Computer – 1	HP AIO Intel Core i7, 3.40	Sanction No:	17/02/2014
ENVIS Grant	No	GHz, 1 TB HDD, 8 GB DDR3	11/68/2004 – EI	
2013-14		RAM, DVR Writer, 22"	Dated:27/12/2013	
		display		
	Multifunction printer-	HP AIO (printer, copier,	-do-	-do-
	cum-scanner-cum-	scanner) Color Laser Jet Pro		
	copier - 1 No.	MFP M176n		
	UPS – 1 No	600 VA UPS for desktop	-do-	-do-
		computer		

Hardware Procured from ENVIS grant during 2002-03	Hardware provided by the host department, Forests, Environment & Wildlife Management Department, Government of Sikkim				
 Desktop Computer - 2 Nos(P-IV, 1 GB RAM, 80 GB HDD) Printer - 1 No (Laserjet black printer) Scanner - 1 (600 dpi flat bed) 	 Desktop Computer – 1 Nos Printer – 1 Nos Scanner (Flat bed) – 1 Nos All in one printer/ copier/ scanner – 1 No 3 KVA inverter with battery Telephone (landline 03592-280381) 				

16. Status of utilization of grant in previous year (2014-15) and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned	Actual Expenditure	Reasons for Shortfall/ Excess
		amount (Rs.)	(Rs.)	(if any)
Recurring	Manpower	8,40,240	8,40,240	-
Annual	Databases, etc.	4,00,000	4,00,000	-
	Travel & Training	40,000	40,000	-
Non- Recurring	Preparation of State of Environment	30,97,500	-	To be utilized during 2015-16 as the grant was released only
(SoER)	Report 2015- Sikkim			on 2 nd March 2015

17. Issues/ hurdles faced in undertaking ENVIS activities:

17.1.	Many users have been complaining about user login failures in our system. The password recovered after login failure is complicated and difficult to remember. The password reset facility is not available for the users. Request sent to NIC (Miss Afia Parveen) several times but action on this remains pending till date.
17.2.	Data collection for ISBEID platform is challenging and painstaking due to non-availability of readymade data. At most instances, data is retrieved through rigorous and in-depth study of reports from secondary sources which is time taking and hinders timely activity.
17.2	The temporary nature of ENVIS incumbent is highly risky in nature. Job insecurity hinders the effective implementation of the centre. Annual increments or incentives can boost the morale of the hardworking personnel engaged in the centre.

18. Proposed Annual Plan of Activities for 2015-16

The annual plan of activities of our centre in summative is enumerated below;

- 1. Database development on State's biodiversity resources (both flora and fauna)
- 2. Spatial database development on natural resource atlas of Sikkim.
- 3. ISBEID data collection and updation for 2014-15 onwards on all 17 modules.
- 4. Publication State of Environment Report (SoER) 2015: This will be the second SoER for Sikkim. First publication by ENVIS was made in 2007-08. Our Centre has already signed MoU with Development Alternatives as an expert agency for the preparation of SoE report for Sikkim. The report is expected to be completed during current financial year 2015-16.
- 5. Publication of Quarterly Newsletters on regular basis
- 6. Publication of special edition of 4th quarter PANDA newsletter.
- 7. Publication of Knowledge based products on "Forest Wildlife in Sikkim" and "Environment Management in Sikkim"
- 8. Integration of Bhuvan based thematic/ spatial data and information in the existing CMS based website.
- 9. Serve as the nodal in-charge for online updation of data and information on Status of Environment and its related issues pertaining to Sikkim.
- 10. Coordinate NEAC and NGC programmes in Sikkim as a Nodal Resource Agency.
- 11. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, fyers, signages etc.

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<u>Annex - I</u>
Status of data entry in ISBEID: (For State/ UT ENVIS Centres):

			Peri	od for whic	ch data up	dated
Module	Sub-Module	Fields	State-level		Distri	ct-level
			Annual	Monthly	Annual	Monthly
		Name			1	
		No. of Districts (with name)			✓	
		No. of Mandals/ Tahsils/ Taluks (with name)	✓			
		No. of Blocks (with name)	✓			
		No. of Municipalities (with name)	✓			
		No. of Panchayats	✓			
		No. of Cities with million plus population (with name)	✓			
		No. of Tribal Settlements				
	1. General	Elevation above mean sea level (Maximum)	✓		✓	
		Elevation above mean sea level (Minimum)	✓		✓	
		Total geographical area	✓		✓	
		GDP of the state (Sector wise)				
		- Primary	2000, 2005- 2012			
		- Secondary	2000,200 5- 2012			
Ŧ		- Tertiary	2000,200 5- 2012			
I. Adminis-	2. Socio	No. of BPL household in millions	2006		2006	
trative	Economics	% of Household below poverty line	2006		2006	
	3. Climate	Average mean monthly temperature (Max.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Average mean monthly temperature (Min.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Total annual Rainfall		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Relative Humidity				2006 (E)
		Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)				
	4.	Total Population	1961- 2011		1991- 2011	
	Demography	Males Population	1961- 2011		1991- 2011	
		Females Population	1961- 2011		1991- 2011	

		Fields	Period for which data updated			
Module	Sub-Module		State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Density	1961-		1991-	
			2011 1961 -		2011 1981-	
		Area in	2011		2011	
		No. of females/thousand males (sex ratio)	1961-		1991-	
			2011 1961-		2011 1981-	
		% of Literacy	2011		2011	
		% of population attending school	2001		-	
		Crude Birth Rate (Nos. per 1000 population)	2001, 2011			
		Crude Death Rate (Nos. per 1000 population)	2001, 2011			
			2001,		2001,	
		Permanent	2005,		2005,	
			2011 2001,		2011 2001,	
		Semi- Permanent	2001, 2005,		2001, 2005,	
	1. Housing		2011		2011	
		Temporary	2001,		2001,	
			2005, 2011		2005, 2011	
		Average Household Size (Persons per HH)	2005		2005	
	2. Medical and Health Service	No. of Government Hospitals	1990-		1990-	
II.		-	2015		2015	
Infra- structure		No. of Registered private hospitals/ nursing homes	1995- 2015		1995- 2015	
	_	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways	1998-			
			2015		1000	
	3. Transport	Length of State Highways	1990- 2015		1990- 2015	
		Length of other roads	1998- 2001			
		No. of Domestic Airports	2001			
		No. of international Airports				
		Coal power generation				
		Installed Capacity				
		Gas Power generation				
		Installed Capacity				
		* *				
		Oil based power generation				
III.Energy	1. Non-	Installed Capacity				
mininergy	Renewable	Atomic power generation				
		Installed Capacity				
		Power from National Grid	2003- 2012			
		Installed Capacity	2003- 2012			

			Peri	Period for which data updated			
Module	Sub-Module	Fields	State	e-level	District-level		
			Annual	Monthly	Annual	Monthly	
		Hydel power generation	1992, 1995, 2000- 2012				
		Installed Capacity	1992, 1995, 2000- 2012				
		Windmill power generation					
	2. Renewable	Installed Capacity					
		Solar photovoltaic power generation					
		Installed Capacity					
		Biogas power generation					
		Installed Capacity					
		Other biomass power generation					
		Installed Capacity					
		Industrial and Commercial	2008- 2013				
	3. Electricity	Agriculture					
	Consumption	Domestic	2008- 2013				
		Others	1998- 2012				
		LPG	2010- 2012				
	4. Energy	Other Petroleum Products					
	Consumption	Coal					
		Natural Gas					
		Other					
		Total agricultural area					
		Area under non-agriculture use	2001- 2012				
		Barren and uncultivable land	1996- 2012				
		Permanent pasture / grazing land	1996- 2013		1996- 2013		
	1 Agriculture	Net irrigated land	1996- 2010				
IV. Agri- culture	1. Agriculture Area Classification	New Sown area	1991, 1996- 1999, 2002- 2011				
		Plantation crops					
		Fallow	1991, 1996, 2005- 2012				
		Area under organic farming thereof	2012				
	2. Agriculture	Total production of crops	2000- 2011,		2004- 2011,		

			Peri	od for whic	ch data up	dated
Module	Sub-Module	Sub-Module Fields	State	e-level	District-level	
			Annual	Monthly	Annual	Monthly
	Production		2013		2013	
			2000-		2004-	
		Yield of Kharif Crops %	2000 2011,		2004 2011,	
		Tield of Tillum Crops //	2013		2013	
			2000-		2004-	
		Yield of Rabi Crops %	2011,		2011,	
			2013		2013	
		Yield of other crops %				
		Name				
		Production				
		Rice	1990-		1991-	
		Rice	2014		2014	
			1990-		1991-	
		Sowing Area	1997,		1998,	
			2000-		2000-	
			2014 1990-		2014 1991-	
		Production	2014		2014	
					1992,	
		Wheat	1992-		1998-	
			2014		2014	
			1992,		1992,	
		Sowing Area	2000-		2000-	
			2014		2014	
		Production	1992-		1992,	
			2014		1998- 2014	
					1992,	
	3. Crop	Pulses	1992-		1992, 1998-	
	Production	i dibeb	2014		2014	
	(plantation		1992,		1992,	
	crops) (in	Sowing Area	2000-		2001-	
	million tons		2014		2014	
	per annum)		1992-		1992,	
	per unitant)	Production	2014		1998- 2014	
		Total food grains			2014	
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute &mesta				
		Sowing Area Production				
		Sugarcane				
		Sugarcane Sowing Area				
		Production				
		Tobacco				
		Sowing Area				
		Sowing Alea				

			Peri	od for whic	ch data up	dated
Module	Sub-Module	Sub-Module Fields	State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Production				
		Oil Seeds	1992-		1992-	
			2014		2014	
		Sowing Area	1992- 2014		1992- 2014	
			1992-		1992-	
		Production	2014		2014	
		Cereals	1993-		2004-	
			2014 2000-		2014 2004-	
		Sowing	2014		2014	
		Production	1993-		2004-	
			2014		2014	
		Others	1996- 2011		1998- 2011	
			1996,		1996,	
		Sowing Area	1998,		1998,	
		Sowing Alca	2005-		2005-	
			2011 1996,		2011 1996,	
			1998,		1998,	
		Production	2005-		2005-	
			2011		2011	
		Nitrogen				
	4. Fertilizer	Phosphate				
	Consumption	Potash				
		Others				
		Insecticides				
		Fungicides				
	5. Pesticide	Weedicides				
	Consumption	Rodenticide				
		Fumigants				
		Others				
		Total No. of Large Scale Industries	2012			
			2001,			
		Total No. of Medium Scale Industries	2004,			
	1. Category of Industry	Total No. of Small scale Industries	2012 2001- 2012			
	maastry	Total No. of Red Category Industries	2012			
		Total No. of Orange Category Industries				
V.						
Industries		Total No. of Green Category Industries				
		Iron	1998-			
		Copper	2002			
	2. Mining &	Lead	1998-			
	Quarrying		2002			
		Zinc	1998- 2002			
		Nickel				

			Period for which data updat			
Module	Sub-Module	Fields		e-level		ct-level
			Annual	Monthly	Annual	Monthly
		Manganese				
		Bauxite				
		Coal				
		Other (Chromite)				
		Name of the Mineral Resources				
		Name and location of Heritage sites			~	
VI.		Name and location of Religious places/centres			~	
Tourism &	1. Tourism & Heritage	Name and location Archaeological monuments/sites			~	
Heritage		Name and location of Scenic Areas			✓	
		Name and location of Tourist Resorts				
			1990-		1990-	
		Total Geographical Area	2015		2015	
		Forest	1996 - 1997, 2005- 2013			
		Non-Agriculture use	1996- 1997, 2001- 2011			
		Barren and uncultivable land	1996 - 2012			
		Permanent pastures and other grazing land	1996- 2013		1996- 2013	
		Miscellaneous tree crops and groves	1996- 2011			
VII.	1. Land Use Classification	Cultivable wasteland	1996- 1997, 2001- 2011			
Natural Resources		Fallow land other than current fallow	1996- 1997, 2001- 2011			
		Current fallow Net area sown	1996- 1997, 2005- 2011			
		Gross cropped area				
		Area sown more than once	2001- 2011			
		Net irrigated area				
		Gross irrigated area				
		Others	2001- 2002, 2005- 2011			
	2. Land	Degraded land area	2011 2005- 2012		2006- 2012	
	Degradation	Degraded Irrigated land				

			Period for which data u			-	
Module	Sub-Module	b-Module Fields		e-level		ct-level	
			Annual	Monthly	Annual	Monthly	
			2000-		2000-		
		Area affected by shifting cultivation	2009, 2015		2009, 2015		
		Deforestation rate	2013		2013		
		Total salt affected land	2000		2000		
		Salinization rate	2000- 2009,		2000- 2009,		
		Samization rate	2009, 2012		2009, 2012		
		Area effected by desertification	2012		2012		
			1990-		1990-		
		Gullied & or Ravenous Land %	2015		2015		
		Upland with or without Scrub %	2000-		2000-		
		Optand with of without Scrub %	2011		2011		
		Water Logged & marshy Land %	1990-		1990-		
			2015		2015		
		land affected by Salinity/Alkalinity Coastal/	1990-		1990-		
		Inland %	2015		2015		
		Underutilized Degraded Notified Forest Land	2000-		2000-		
		%	2011		2011		
		Shifting Cultivation Area %	1990-		1990-		
			2015		2015		
			1990-		1990-		
	3. Waste Land	Degraded Land under Plantation Crops %	2015		2015		
			1990-		1990-		
		Degraded Pastures/Grazing Land %	2015		2015		
			2015		2015		
			1990-		1990-		
		Mining Industrial Wastelands %	2015		2015		
		Sands - Deserted Coastal %					
		Steep Slopping Area %	2001-		2001-		
			2004		2004		
		Barren Rocky/Stony Waste/Sheet Rocky	2001-		2000-		
		Area %	2011		2011		
		Snow Covered and/or Glacial Area %	2000- 2011		2000- 2011		
	<u> </u>		2000-		2000-	+	
		Names of wetlands of national importance	2015		2015		
		Names of wetlands of international					
		importance (Ramsar site etc.)					
		Coastal /Estuaries					
			2005-		2005		
		Fresh water Lakes	2005-2015		2005- 2015		
	4. Types of		1997-		1997-		
	Wetlands	Tanks/Ponds/Reservoirs/Dams	2015		2015		
		Marshes (Tidal/Non-Tidal)					
		Swamps					
		Mangroves					
		Flood Plains					
		Total Area of Wetland	1997-		1997-		
			2015		2015		

	Sub-Module		Peri	od for whic	ch data up	lated
Module		Fields		e-level		ct-level
			Annual	Monthly	Annual	Monthly
		Others				
		Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
	5. Soil Types	Laterite Soil				
		Alluvial Soil				
		Mountain Soil	1990- 2015		1990- 2015	
		Mix Red & Black Soil	2013		2013	
		Peaty Soil				
			1990-		1998-	
		Dense Forest	2013		2012	
		Open Forests	1990-		1988-	
		Mangroves	2013		2013	
	1. Distribution of Forest Cover	-	2010-			
		Trees outside forests	2012			
		Numbers				
		Area in				
		Non Forest	1995- 2013		2013	
	2. Recorded Forest	Reserved Forest	1990- 2013		2002- 2013	
		Protected Forest	1990- 2013		2002- 2013	
		Unclassed Forest	1990- 2001		2013 2002- 2001	
		Bauxite	2001		2001	
VIII.		Chromite				
Forest	2 Mining in	Copper				
Resource	3. Mining in Forests	Iron				
	1 010505	Manganese				
		Others				
			1000		1000	
	4. Actual Forest Cover	Dense Forest (Crown density Cover Area above 40%) (in ha)	1990- 2013		1998- 2013	
	by Density	Open Forest (Crown density 10- 40% (in ha)	1990- 2013		1998- 2013	
	Class	Mangrove (in ha)	2013		2013	
	5. Forest	Timber poles	2002, 2005- 2007, 2010-			
	5. Forest Produce	Fuel wood	2011 1997- 2001, 2010- 2011			

	Sub-Module		Period for which data updated			
Module		Fields	State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Pulp & match Wood				
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
		Drugs/Tannins	1000			
		Spices	1990, 1995, 1988- 1999			
		Lac				
		Others	2002- 2007			
	6. Joint Forest Management	Name of District			2002- 2013	
	Committee	No. of JFMC	1998- 2013		2002- 2013	
	1. Source of	Name of River	1990- 2014			
		Total Length	1990- 2014			
		Catchment Area				
		Seasonality (Perennial/Seasonal)	1990- 2015			
IX.		Canals (Length)				
IX. Water		Reservoirs				
Resource	Water	Tanks, Lakes & Ponds				
		Brackish Water				
		Government Owned Canals				
		Private Canals				
		Tanks				
		Wells				
		Tube Wells				
		Total Replenishable Ground Water Resource	2008- 2010			
		Provision for industrial/ domestic/ other uses	2008- 2011			
		Available Ground Water Resource				
X.	1 9	Net Draft				
Ground Water	1. Status of Ground Water	Balance Ground Water				
Resource	Stound Water	Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms	2008- 2011			
		Over Exploited	2008- 2011		2008- 2011	

			Period for which data updated				
Module	Sub-Module	Sub-Module Fields	State-level District-le			ct-level	
			Annual	Monthly	Annual	Monthly	
		Critical Area	2008- 2011		2008- 2011		
		Gross Draft Estimated on Pro-rata basis	NA		NA		
		Pre-Monsoon average depth to water level					
	2. Categorization	Post Monsoon average depth to water level					
	of Water	No. of Over Exploited Area	2010- 2014		2010- 2014		
	Level	total Ground Water Resource					
		Quantity of ground water for irrigation					
		Available ground water for irrigation					
	3. Use of Ground Water	Utilizable ground water for irrigation	2008- 2011		2008- 2011		
		Net ground water draft	2008- 2011		2008- 2011		
	1. Ecological Areas	Name of Biogeographical Zones	~				
	2.Ecology Type	Name of National Parks	2006- 2015				
		Name of Wildlife Sanctuaries	1990- 2015				
		Name of Bird Sanctuaries	2005- 2015				
		Name of Tiger Reserves					
		Name of Elephant Reserves					
		Name of Biosphere Reserves	1998- 2015				
		Name of Protected Mangroves area (Private & Public)					
XI.		Name of Botanical Garden					
Ecology		Area of Botanical Garden	1998-				
	3. Botanical Gardens		2015 1998-				
		Location	2015				
		Uniqueness					
		Name of Zoological Park	1998- 2015				
		Area of Zoological Park	1998-				
	4. Zoological Parks	Location	2015				
		Uniqueness					
	5.	Mountain Name	1994- 2015				
	Physiographic al Features	Height (Meter)	1994- 2015				
XII.	1. Hygiene	No. of Town covered	2010- 2013				

				Period for which data updated			
Module	Sub-Module	Fields		State-level District-level			
Conitation	P-		Annual	Monthly	Annual	Monthly	
Sanitation	& Sanitation	No. of Town not covered	2010-				
		Total No. of treatment plants	2010-2013				
	2. Air Borne Disease	Type of Disease	2005-		2005-		
			2014 2005-		2014 2005-		
		Name of Disease	2014		2014		
		No. of Deaths	2005- 2014		2005- 2014		
	3. Water Borne Disease	Turne of Disease	2014		2014		
		Type of Disease	2014		2014		
		Name of Disease	2005- 2014		2005- 2014		
		No. of Deaths	2005-		2005-		
		River Name	2014		2014		
			2001,	2010-	2001,	2010-	
			2006,	2013	2006,	2013	
		Location	2008, 2010-		2008, 2010-		
			2010-2011		2010-2011		
			2001,	2010-	2001,	2010-	
	1.	BOD	2006, 2008,	2013	2006, 2008,	2013	
			2010		2010-		
					2011		
		COD	2001	2010-	2001	2010-	
XIII. Water Pollution		Ph	2001, 2006,	2010-2013	2001, 2006,	2010-2013	
			2008,	2010	2008,	-010	
			2010		2010- 2011		
			2001,	2010-	2011 2001,	2010-	
		Total Coliform	2006,	2013	2006,	2013	
ronution			2008, 2010		2008, 2010-		
					2011		
			2001,	2010-	2001,	2010-	
		Conductivity	2006, 2008,	2013	2006, 2008,	2013	
			2010		2010-		
		Laka Nama	2001		2011		
		Lake Name			2001		
		Location	2001		2001		
		BOD	2001		2001		
		COD	2001		2001		
		Ph Total Caliform	2001		2001		
		Total Coliform					
		Conductivity				2010-	
XIV.		SO ₂				2010-2013	
Air Pollution	1. Industrial	NOr				2010-	
ronution		NOx				2013	

			Period for which data updated			
Module	Sub-Module	Fields	State-level District-level			
			Annual	Monthly	Annual	Monthly
		Suspended Particulate Matter (SPM)				2013
		Respirable Suspended Particulate Matter (RSPM)				2013
	2. Residential	SO ₂				2001, 2003- 2004
		NOx				2001, 2003- 2004
		Suspended Particulate Matter (SPM)				2001, 2003- 2004
		Respirable Suspended Particulate Matter (RSPM)				
	3. Vehicular	No. of Vehicles	1995, 1998- 2001, 2003, 2007, 2009		1995, 1998- 2001, 2003, 2007, 2009	2009- 2012
	Pollution	Type of Vehicles	1995, 1998- 2001, 2003, 2007, 2009		1995, 1998- 2001, 2003, 2007, 2009	2009- 2012
XV.	1. Flora	Total Species (RET)	1990, 2007, 2012- 2014			
Bio-		Redbook species No.				
diversity	2. Fauna	Total Species (RET)				
		Redbook species No.				
	1. Type of Waste	Hazardous waste (HW) in t/a				
		E-waste thereof in t/a				
		Biomedical waste (BMW)	2006, 2008- 2009, 2012		2006	
XVI. Waste		Municipal Solid Waste (MSW)	2005, 2011, 2012		2005, 2011	
		Plastic Waste				1
		Waste Water				1
		Treatment/Disposal (for all 5)				
	2. Clean Technology	Type of Industries				
		Name of technology used				
	3. Effluent Treatment Plant/CEPT	Name of District				
		No. of Plants				

			Period for which data updated			
Module	Sub-Module	Fields	State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Type of Disaster	1990,		1990,	
			1995-97,		1995-97,	
			1999-		1999-	
			2002,		2002,	
			2004-		2004-	
			2006,		2006,	
			2011,		2011,	
			2013		2013	
	1. Disaster	Year	1990,		1990,	
			1995-97,		1995-97,	
			1999-		1999-	
			2002,		2002,	
XVII.			2004-		2004-	
Disaster			2006,		2006,	
21505001			2011,		2011,	
			2013		2013	
			1990,			
			1995-97,			
			1999-			
		Affected districts in nos.	2002,			
			2004-			
			2006,			
			2011,			
			2013			
		Population affected (in millions)				
		Damage in crore INR				

Annex - II

Other Activities

Training, Extension and Awareness Activities by ENVIS during 2014-15

1. Green Wave Progamme – Participation at a Global Programme



ENVIS Centre Sikkim at Forest, Environment and Wildlife Management Department in association with Centre for Environment Education (CEE), North-East coordinated the Green Wave programme in Sikkim which was participated by about 20 schools across the State through tree planting and other awareness activities on the 22nd of May 2014 to mark the International Day for Biological Diversity.

The Green Wave 2014 with the theme "One School, One Tree, One Gift to Nature" was joined by Sikkim eco-club schools with a special tree planting ceremony at 10 AM in their respective school premise. The activities of the schools on that

particular day were uploaded in the green wave website of CBD which was reflected in a global map to represent a green wave.



ENVIS Centre also planted ornamental plants in pots for use in the office premise. The centre coordinated with the participating schools and provided programme posters, flyers and other reading materials on conservation of local biodiversity. The reports were compiled and submitted to the CEE North-Eastern regional cell.

The Green Wave is a global biodiversity campaign that enables young people to make a difference. Green Wave campaign encourages participants to engage in local action, build friendships with other participants around the world and learn about global issues affecting biodiversity.

The Green Wave is celebrated annually on 22 May – the International Day for Biological Diversity. In participating schools, children and youth plant a tree at 10:00 am local time, creating a "green wave" that goes around the world. Participants upload photos and text to the Green Wave website to share their tree planting stories. An interactive map goes live in the evening at 20:20 local time, creating a second "green wave".



The Green Wave supports the work of the Convention on Biological Diversity to strengthen awareness and education on biodiversity. The Green Wave supports other tree planting initiatives such as the Billion Tree Campaign led by the United Nations Environment Programme



2. Chief Minister's Green School Rolling Trophy and State Green Schools Award 2014

ENVIS Centre actively played a role of the resource agency in scrutinizing and screening the reports from about 90 schools for the State's most prestigious award scheme, the Chief Minister's Green School Rolling Trophy and State Green Schools Award 2014. ENVIS Centre has been playing the role of nodal cell in implementing this award scheme in the State since its inception in 2011.

The 2014 awards were presented to seven schools during the State level celebration of World Environment Day on 5th June 2014 at Namchi, South Sikkim.

SN.	SCHOOLS NAME	AWARDS
1.	Govt. Girls' Sr. Sec. School,	CM Rolling Trophy/ Certificate/
	Namchi, South Sikkim	Cash prize – Rs. 5.00 lakhs
2.	Govt. Secondary School,	Trophy/ Certificate/
	MelliGumpa, South Sikkim	Cash prize- Rs. 1.00 lakhs
3.	Govt. Secondary School,	Trophy/ Certificate/
	Lingchom, West Sikkim	Cash prize- Rs. 1.00 lakhs
4.	Govt. Secondary School,	Trophy/ Certificate/
	Lower Samdong, East Sikkim	Cash prize- Rs. 1.00 lakhs
5.	Govt. Sr. Sec. School,	Trophy/ Certificate/
	Hee-Gyathang, North Sikkim	Cash prize- Rs. 1.00 lakhs
6.	Govt .Primary School,	Trophy/ Certificate/
	Bigyani, South Sikkim	Cash prize- Rs. 50,000/-
7.	Govt. Primary School,	Trophy/ Certificate/
	Samdur, East Sikkim	Cash prize- Rs. 50,000/-

3. Paryavaran Mahotsav 2014 Celebration



ENVIS Centre played active role in coordinating the 2^{nd} successive Paryavaran Mahotsav in Sikkim from June 15 to June 30, 2014. This fortnightly event which included the 9^{th} Phase State Green Mission and 6^{th} Phase Ten Minutes to Earth programme was carried out throughout the State through active participation of local populace from all walks of life.

The Centre's role was to spread mass awareness and publicity through online and print media. The centre designed and printed programme banners, posters,

signages for signature campaign on green pledges, Greenathon stickers for green run and walk, certificates, Go Green stickers for vehicles. The centre coordinated eco-competitions (debate, seminar, paintings, quiz) at various school eco-clubs and publicized the event report online and print media in the form of newsletter.

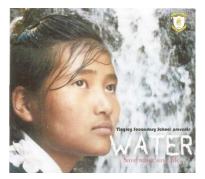
4. Sustainable Environment Initiative at Schools



As a part of a Nation-wide Sustainability Education Initiative under the National Green Corps (NGC) programme, eco-club schools from Sikkim actively participated and nurtured their creative skills while contributing to the regular environment conservation programmes. The month long programme was coordinated by ENVIS Centre at Department of Forests, Environment and Wildlife Management, Government of Sikkim in collaboration with Centre for Environment Education (CEE), North-East.

The month-long campaign during September 2014 focused on Biodiversity by engaging students in tree plantation and creative activities which helped them learn about the local tree, care for the trees and observe the way they grow. The campaign reached 20 schools across the State. The schools were provided with campaign flyers, posters, worksheets etc. The main objectives of the campaign were to inculcate a sense of appreciation among school students about diverse life forms, the biodiversity around them and to inspire and engage them in the protection of biodiversity for sustainability through activities. A **"Creative Expressions"** competition on the theme **"Life"** or **"Life** forms including Paintings, Poems, Slogan design and Photography was conducted on the occasion of **World Ozone Day** on 16th of September, 2014 as a part of awareness programme.

5. Compilation of 20 Eco-Club Success Stories from Sikkim



ENVIS Centre compiled 20 eco-club success stories from Sikkim and sent the compilation to regional office of CEE at Guwahati for National level publication of 100 success stories of the country.

This rigorous exercise involved collection and scrutiny of more than 500 reports from the school eco-clubs. After screening the reports, the best 20 stories were selected in consultation with the Centre for Environment Education cell of the North-East. The national publication is awaited for official release.

6. Swachh Bharat Swasthh Sikkim



ENVIS Centre made extensive coverage and publicized the State-wide activities on Swachh Bharat Abhiyan. The centre reached to school eco-clubs and public for generating awareness and spreading the campaign activities at a wider level. ENVIS portal highlighted the event information and the centre also published newsletter with a special coverage on Swacch Bharat Swasthh Sikkim focusing on solid waste and healthcare waste management.

7. Pre-workshop on National Environment Awareness Campaign for Sikkim



A pre-proposal workshop for National Environment Awareness Campaign 2014-15 was held on 18th October 2014 to discuss on various awareness and action activities to be carried out by the Participant Agencies (PAs) at the local level. This day long workshop was organized by ENVIS Cell, Forest Environment & Wildlife Management Department at the ENVIS Library – cum- meeting hall. Representatives from ten participating NGOs attended the workshop.



8. Green Teacher's Training

ENVIS Centre at Forests, Environment & Wildlife Management Department, Government of Sikkim organized a Two-Day Green Teacher's Training programme for 200 schools on 27th and 28th of November 2014 at Forest Conference Hall in Deorali, Gangtok as an initiative towards strengthening the National Green Corps (NGC) programme being implemented in Sikkim. The inaugural session of the programme was chaired by the Hon'ble Minister Forest Shri Tshering Wangdi

Lepcha, PCCF-cum-Principal Secretary Dr. Thomas Chandy IFS, CCF (T/ HQ) Shri C. S. Rao IFS and CCF/ OSD (Environment) –cum- Programme Coordinator (ENVIS) Shri B.K.Tewari.



9. Training of Frontline Forest Staff

ENVIS Centre was conducted training-cum-refresher course for frontline staff of the host department to empower the frontline staff with finger tip information for field level query and better understanding of the local environment. The centre highlighted the role of ENVIS in environmental information management for access of data and information which was beneficial for the field staffs.

10. Task Monitoring System



ENVIS cell represented the host department to undergo training on implementation of Task Monitoring System deployed by the Home Department, Government of Sikkim to keep track of various departmental assignments for timely execution. ENVIS Centre made the nodal in-charge for all web updation of the host department and implementation of online applications.

11. CMS VATAVARAN International Environment & Wildlife Film Festival and Forum



ENVIS centre conducted the State's first ever International Environment & Wildlife Film Festival and Forum. The event was coorganized with the Centre for Media Studies (CMS) New Delhi on 12-14 March 2015 at Gangtok. ENVIS Centre coordinated events such as film screenings, nature trail, green film making workshop for school students, teachers and youths.

12. Hosting of information in Digital Display Board



The host organization has installed a digital display board to inform the general public and visitors on the latest data, statistics and news on forestry, environment, wildlife, biodiversity, ecotourism and other environment related issues of the State. ENVIS has been the key source of information for displaying in this board.

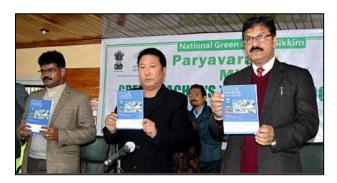
13. Release of ENVIS Publications 2014-15



Release of PANDA Newsletter by the Hon'ble Minister (Power) Shri D. D. Bhutia and Hon'ble Minister (Forest) Shri T. W. Lepcha on the occasion of State-level World Environment Day celebration at Namchi, South Sikkim on June 5, 2014



Release of Paryavaran Mahotsav activity booklet, posters, stickers by the Hon'ble Miister (Forest) Shri T. W. Lepcha and other dignitaries on the occasion of launching ceremony of Paryavaran Mahotasav 2014 at M G Marg Gangtok June 15, 2014



Release of Eco-Club Handbook by the Hon'ble Minister (Forest) Shri T. W. Lepcha along with PCCF cum Principal Secretary Dr. Thomas Chandy and CCF Shri C. S. Rao during the inaugural programme of Green Teacher's Training on November 27, 2014.



ENVIS CENTRE SIKKIM CELEBRATED BISWAKARMA PUJA ON 17TH SEPTEMBER 2014